IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (original) A method for forming a three dimensional soft magnetic metal mass suitable for milling, comprising the steps of:

wrapping a soft magnetic metal ribbon into a three dimensional shape; applying an adhesive to the three dimensional shape to allow permeation of the adhesive into the three dimensional shape; and

curing the adhesive.

- 2. (original) The method of claim 1 where the step of applying an adhesive to the three dimensional shape comprises an ambient atmospheric soak process.
- 3. (original) The method of claim 1 where the step of applying the adhesive comprises a wet spray process applied during winding.
- 4. (original) The method of claim 1 where the step of applying the adhesive comprises an electrolytic deposition process during winding.
- 5. (original) The method of claim 1 where the step of applying an adhesive to the three dimensional shape comprises:

providing a vessel containing adhesive; immersing the three dimensional shape in the adhesive; and evacuating the vessel.

6. (original) The method of claim 2 or 5 where the step of curing the adhesive comprises the step of heat treating the three dimensional shape.

- 7. (original) The method of claim 6 where the soft magnetic metal ribbon has a thermal processing temperature, and the step of heat treating the three dimensional shape occurs at a heat treating temperature, and the heat treating temperature is a fraction of the thermal processing temperature.
- 8. (original) The method of claim 7 where the fraction is about 1/2.
- 9. (original) The method of claim 7 where the fraction is about 3/4.
- 10. (original) The method of claim 7 where the fraction is about {fraction (1/)}.
- 11. (original) A three-dimensional soft magnetic metal mass suitable for milling made in accordance with claim 1.
- 12. (original) A method for forming a soft magnetic metal toroid suitable for milling comprising the steps:

winding a soft magnetic metal ribbon into a toroid; applying an adhesive to the toroid; and curing the adhesive.

- 13. (currently amended) The method of claim 10-12 where the step of applying an adhesive to the soft magnetic metal toroid comprises an ambient atmospheric soak process.
- 14. (original) The method of claim 12 where the step of applying an adhesive to the soft magnetic metal toroid comprises:

providing a vessel containing adhesive; immersing the soft magnetic metal toroid in the adhesive; and evacuating the vessel.

15. (original) The method of claim 13 or 14 where the step of curing the adhesive includes a step of heat treating the toroid.

- 16. (original) The method of claim 12 where the soft magnetic metal ribbon has a thermal processing temperature, and the step of heat treating the toroid occurs at a heat treating temperature, and the heat treating temperature is a fraction of the thermal processing temperature.
- 17. (original) The method of claim 16 where the fraction is about 1/2.
- 18. (original) The method of claim 16 where the fraction is about 3/4.
- 19. (original) The method of claim 16 where the fraction is about 1/4.
- 20. (original) A method for manufacturing a soft magnetic metal electro-mechanical component comprising the steps of:

winding soft magnetic metal ribbon into a toroid;

containing the toroid within a toroidal geometry;

milling the toroid into a electro-mechanical component shape; and

thermally processing the electro-mechanical component shape into a electro-mechanical component.

21. (original) The method of claim 20 where the step of containing the toroid within a toroidal geometry comprises the steps of:

applying an adhesive to the toroid; and curing the adhesive.

- 22. (original) The method of claim 21 where the step of applying the adhesive to the toroid comprises an atmospheric soak process.
- 23. (original) The method of claim 21 where the step of applying adhesive to the toroid includes the steps of:

providing a vessel containing the adhesive;

immersing the toroid in the adhesive; and evacuating the vessel.

- 24. (original) The method of claim 22 or 23 including a step of curing the adhesive.
- 25. (original) The method of claim 24 where the step of curing the adhesive at a heat treating temperature and the step of thermally processing the electro-mechanical component shape occurs at a thermal processing temperature, and where the heat treating temperature is a fraction of the heat processing temperature.
- 26. (original) The method of claim 25 where the fraction is about 1/2.
- 27. (original) The method of claim 25 where the fraction is about 3/4.
- 28. (original) The method of claim 25 where the fraction is about 1/4.
- 29. (original) The method of claim 20 where the toroid has a ribbon winding axis, and the step of milling the toroid into an electro-mechanical component shape comprises milling the toroid with the cutting tool rotating in an axis perpendicular to the winding axis.
- 30. (original) The method of claim 20 where the toroid has a ribbon winding axis, and the step of milling the toroid into an electro-mechanical component shape consists of milling the toroid with the cutting tool rotating exclusively in an axis perpendicular to the ribbon winding axis.
- 31. (original) An electro-mechanical component made in accordance with claim 20.
- 32. (original) A method for manufacturing a soft magnetic metal electro-mechanical component comprising the steps of:

winding soft magnetic metal ribbon into a toroid; containing the toroid within a milling assembly; applying an adhesive to the toroid; curing the adhesive;
milling the toroid into an electro-mechanical component shape; and
thermally processing the electro-mechanical component shape into an electro-mechanical
component.

- 33. (original) The method of claim 32 including the step of: removing the toroid from the milling assembly.
- 34. (original) The method of claim 32 where the toroid has an inner side surface, an outer side surface, a top and a bottom.
- 35. (original) The method of claim 34 where the step of containing the toroid within a milling assembly comprises placing an inner ring circumferentially about at least a portion of the inner side surface.
- 36. (original) The method of claim 34 where the step of containing the toroid within a milling assembly comprises placing an outer ring circumferentially about at least a portion of the outer side surface.
- 37. (original) The method of claim 34 where the step of containing the toroid within a milling assembly comprises placing a hat on at least a portion of the top.
- 38. (original) The method of claim 34 where the step of containing the toroid within a milling assembly comprises placing a base on at least a portion of the bottom.
- 39. (original) The method of claim 34 where the step of containing the toroid within a milling assembly comprises the steps of:

placing an inner ring circumferentially about at least a portion of the inner side surface; placing an outer ring circumferentially about at least a portion of the outer side surface; and placing a hat on at least a portion of the top.

- 40. (original) The method of claim 39 where the inner ring is placed about substantially all of the inner side surface.
- 41. (original) The method of claim 39 where the outer ring is placed about substantially all of the outer side surface.
- 42. (original) The method of claim 39 where the hat is placed about substantially all of the top.
- 43. (original) The method of claim 39 where a milling plate is placed about substantially all of the bottom.
- 44. (original) The method of claim 39 where the hat and the outer ring are integral.
- 45. (original) The method of claim 39 where the hat, outer ring and inner ring are integral.
- 46. (original) The method of claim 39 including the step of placing a retainer around the outer ring to secure the toroid within the milling assembly.
- 47. (original) The method of claim 40 including the step of providing milling grooves within the milling assembly.
- 48. (original) The method of claim 32 where the toroid has a ribbon winding axis, and the step of milling the toroid into a toroid shape consists of milling the toroid primarily in an axis perpendicular to the winding axis.
- 49. (original) The method of claim 32 where the toroid has a winding axis, and the step of milling the toroid into a toroid shape consists of milling the toroid exclusively in an axis perpendicular to the winding axis.

- 50. (original) The method of claim 45 where the toroid has a winding axis, and the step of milling the toroid into a toroid shape consists of milling the toroid primarily in an axis perpendicular to the winding axis.
- 51. (original) The method of claim 45 where the hat and outer ring have slots, and the step of milling the toroid into an electro-mechanical component shape includes milling through the slots.
- 52. (original) The method of claim 45 where the toroid has a winding axis, and the step of milling the toroid into an electro-mechanical component shape consists of milling the toroid with the cutting tool rotating exclusively in an axis perpendicular to the winding axis.
- 53. (original) The method of claim 50 where the where the hat and outer ring have slots, and the step of milling the toroid into an electro-mechanical component shape includes milling through the slots.
- 54. (original) A soft magnetic metal électro-mechanical component made from the process of claim 32.
- 55. (original) A method for manufacturing a soft magnetic metal electro-mechanical component comprising the steps of:

winding soft magnetic metal ribbon about a winding axis into a toroid, the toroid having an inner side, an outer side, a top and a bottom;

placing an inner ring on the inner side; placing an inner containment hat on the top and inner side;

placing an outer containment hat on the top and outer side; placing a retainer around the outer containment hat; applying adhesive to the toroid;

curing the adhesive;

milling the toroid into an electromechanical component shape; and

thermally processing the electromechanical component shape into an electro-mechanical component.

- 56. (original) The method of claim 55 where the inner containment hat has a plurality of inner containment hat slots and the outer containment hat has a plurality of outer containment hat slots, and the step of milling the toroid into a electromechanical component shape comprises milling through the inner containment hat slots and the outer containment hat slots.
- 57. (original) The method of claim 56 including a step of aligning the inner containment hat slots and the outer containment hat slots.
- 58. (original) The method of claim 55 where the step of milling the toroid into an electro-mechanical component shape occurs with the cutting tools rotating primarily on an axis perpendicular to the winding axis.
- 59. (original) The method of claim 55 where the step of milling the toroid into an electro-mechanical component shape occurs with the cutting tools rotating exclusively on an axis perpendicular to the winding axis.